‘

e-move

User’s manual

Decon Wheel AB
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e-move

You have now received a new wheelchair with e-move. To get the most out of your wheelchair and to ensure it meets your needs, an authorised prescriber should have tested and adjusted your wheelchair. This means that the wheelchair with e-move has been adjusted in accordance with your wishes and that your weight and requirements have been taken into consideration. We are assuming that this has taken place and that you have also received instruction and advice on how to use your wheelchair in everyday situation. Before you start using your e-move wheelchair, look through these directions for use. They are full of good advice and setting options.

e-move is an electrically powered auxiliary motor that is activated by the drive rings. e-move has been tested and approved at TÜV in Germany.

We hope you will be satisfied with e-move.

Read through all of the directions for use. These provide important safety information. Decon Wheel is only responsible for product changes made by authorised staff. We reserve the right to make changes to the equipment and specifications.

Delivery check

Check that all parts are in agreement with the delivery note. You must immediately notify the carrier of any damage during transportation. Remember to keep the packaging until the carrier has checked the goods and a settlement has been reached.

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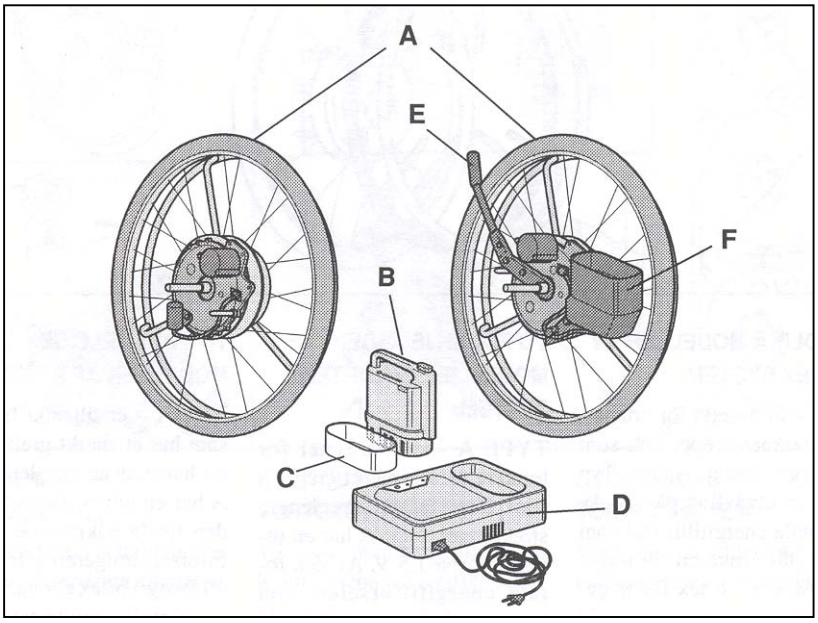
e-move



e-move consists of the following parts:

A. Drive wheels: 2
B. Battery: 1
C. Battery cover
D. Battery charger

On the right drive wheel you will find the operating button (E) and the battery holder (F).

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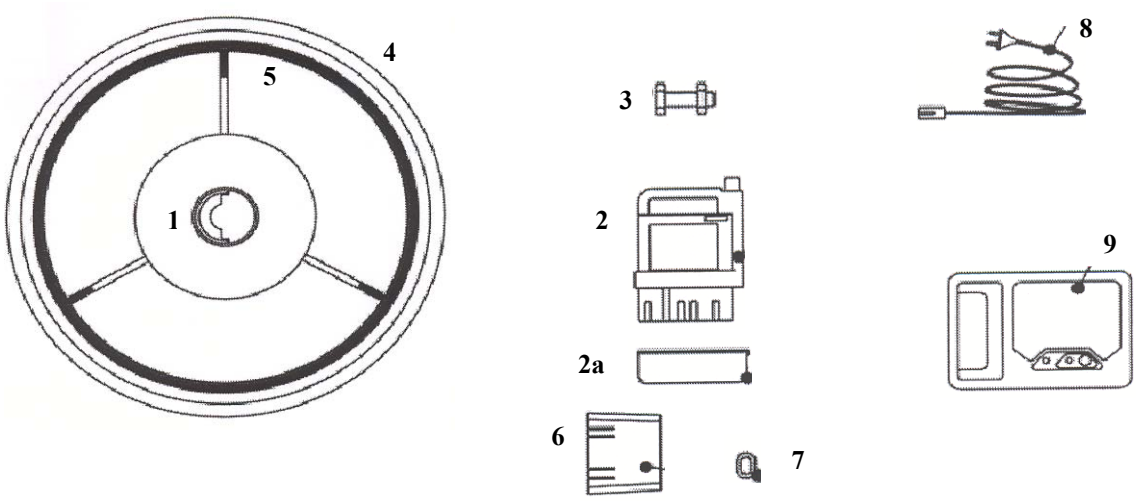
e-move's components:

1. Handle
2. Battery

2a. Battery cover

3. Wheel attachment
4. Drive wheels 22”, 24”
5. Drive ring
6. Cover for electric motor
7. Rubber bushing
8. Charging lead
9. Charging unit



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Important safety instructions before using e-move

For safety reasons e-move must only be operated by people who:

- Have received instruction on using e-move;
- Are in good physical and psychological health, so as to be able to control e-move safely in all operating situations.

Instruction on operating e-move is included in the scope of the delivery and will be provided at a time agreed through your specialist dealer or a Decon Wheel representative. This service is completely free of charge.

If you still do not feel safe using e-move, please contact your specialist dealer.

Adhere to all the values the wheelchair manufacturer has specified in the directions for use, particularly maximum clearance limits. Also carefully follow the operating and safety instructions in the directions for use of the wheelchair.

e-move has no separate brake, so you must fit the parking brakes to the wheelchair and adapt them to the e-move wheels. If the wheelchair is equipped with drum brakes you must remove them in order to be able to operate the wheelchair with e-move. In this case it is vital that you equip the wheelchair with parking brakes.

Always switch e-move off and activate the parking brake before moving to or from the wheelchair. Never hold on to the drive rings when getting into or out of the wheelchair.

e-move is dimensioned for indoor and outdoor use, but a basic prerequisite is that you travel on a stable surface.

Make sure you are in a safe place and switch e-move off before using a mobile phone or a similar device. Avoid driving in the proximity of strong electric fields that can cause interference.

On no account start e-move up before receiving instruction from your specialist dealer or a Decon Wheel representative.

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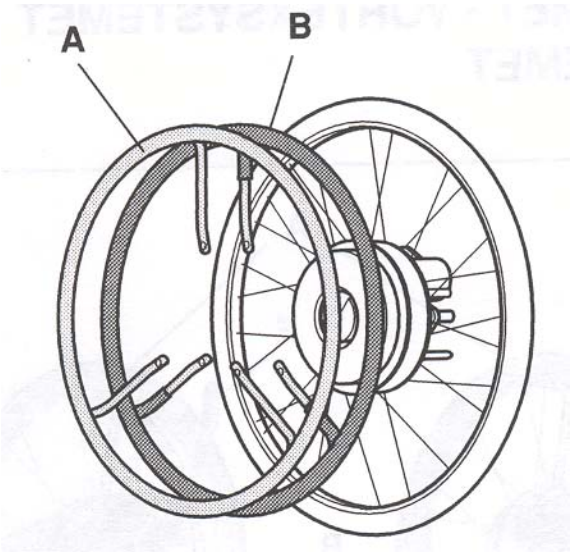
Two models of the e-move

Type A - is designed for users who have a strong grip and cover long distances by themselves. Type A has an assist ratio of 1.5. Of the total energy supply required, the user supplies approximately 40 % and e-move approximately 60 %.

Type B - is designed for users with a somewhat weaker grip. Of the total energy supply required, the user supplies approximately 25 % and e-move approximately 75 %.

You can see which version you have simply by looking at the handrims. Type A has polished/stainless steel handrims and type B has black plastic covered ones. There is also a number in the battery holder, e.g. XA4G.lf the fourth character is "G" you have type A and if the fourth character is "H" you have type B.



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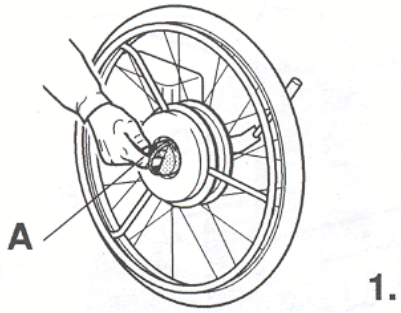
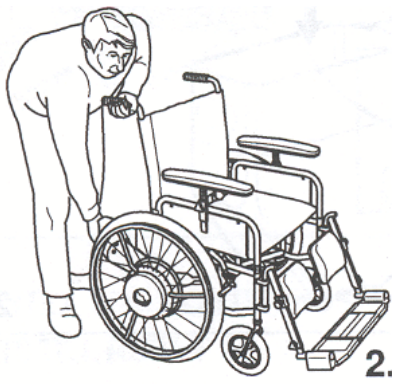
Installing e-move

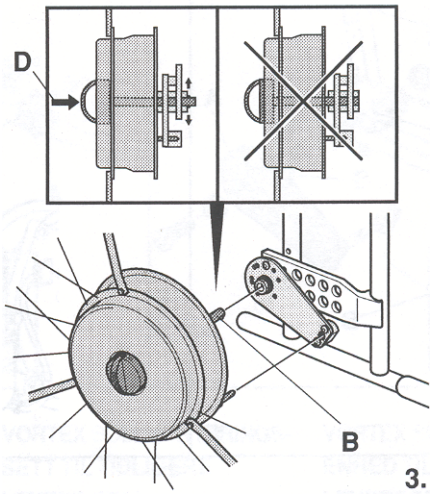
Make sure the correct adapter plate is fitted to your wheelchair before installation.

1. Start fitting e-move to your wheelchair. The wheels have a quick release axle (QR axle). Fold the quick release handle (A, Ill. 1) out when installing.



2. When installing the right wheel you need to lift the wheelchair up a little with your left hand while simultaneously grasping the bottom of the battery holder to stop it from rotating (Ill. 2). Then insert the QR axle (Ill. 3). It is very important that the axle be pressed in far enough, otherwise the QR axle may come off. See illustration (D).





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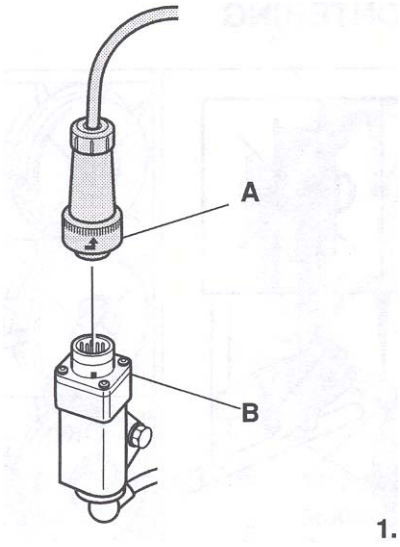
Cable

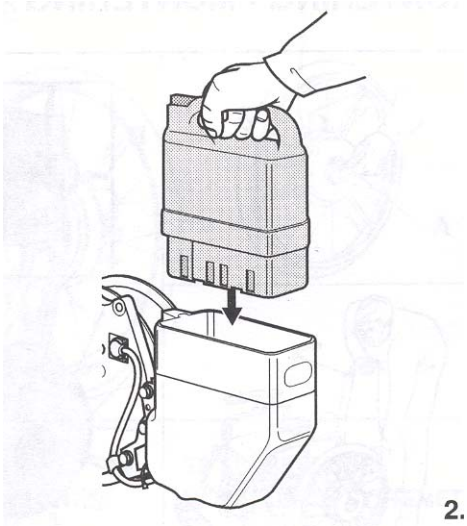
3. The cable (A) hanging loose in the right wheel then needs to be plugged into the contact (B). It is important that the arrow on the cable be aligned with the small line on the contact.



1.

Battery

4. The battery will be charged upon delivery. Remove the protective cover and simply insert the battery in the battery holder as shown in Ill. 2.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Overturn protection

Before you start using e-move for the first time you must check that the overturn protection is fitted to your wheelchair.

For safety reasons you should only remove the overturn protection in order to get over an obstacle, e.g. a high kerb. The assistance of another person will then be necessary.

The installation instructions supplied with your wheelchair must be observed when fitting and removing the overturn protection.

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Important

- If you propel your wheelchair applying the same amount of force as for a normal manual wheelchair, you will notice that, thanks to the e-move system, each push will take you much further. Be careful in the beginning when using your wheelchair until you have learnt how it operates.
- Always switch off the power and apply the brakes when you want to get in or out of the wheelchair.
- Do not touch the switch when using the wheelchair except for when you want to stop. If you switch off the power when the wheelchair is moving quickly, the chair will stop very abruptly which may create a risk of you falling out of the chair.
- Do not balance an e-move chair on the drive wheels using the hand rims. This starts the electric motors and you will find it difficult to keep your balance.
- The handrims may become slippery, which may make steering the chair difficult if your hands are wet or if you use the chair in the rain.
- If you do not move the handrims for five minutes, the system switches off automatically to save the battery.
- Remember that the e-move system increases the width of your wheelchair by approximately 5 cm. This may prevent you from going through narrow doorways, which did not previously cause any problems.
- Remember that the point of balance is changed on e-move chairs compared with other models as the battery is fitted on the rear of the chair.

Sound guide

beep (a short sound)
1. When the system is activated. A light comes on (on the inner side of the wheel) for approximately three seconds).
2. When the system switches off automatically as you have not operated the chair for 5 minutes.

beep-beep-beep-beep-

beep-beep-beep-beep-

beep-beep-beep-beep-

beep-beep-beep-beep-
(four short repeated sounds)

The battery is starting to run out. A light on the inner side of the wheel starts to flash slowly.

beep (a continuous sound)
1. The battery has run out. (The light on the wheel comes on.)
2. Problems with the electronics (the light on the wheel comes on.)
3. When the power is switched on whilst you move the handrims.
(The light on the wheel flashes rapidly.)
4. No contact between the right and left wheel. (The light flashes rapidly.)

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Use of e-move

Activation of the system

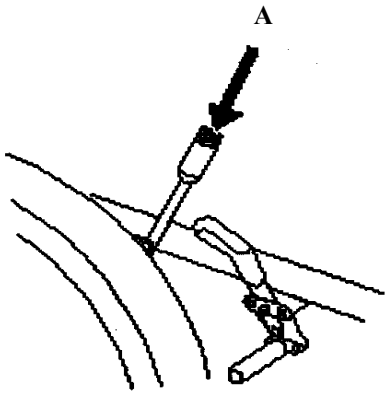
1) Lock the wheelchair brakes.

2) Activate e-move by pressing the button (A) on the right side of the chair. A beep will then be heard, and within three seconds the system will be activated.

If you apply force to the drive rings while simultaneously switching on the current, you will hear a warning signal (long beep) and the wheelchair will not start. Switch the current off and on again without touching the drive rings. Then wait until the system has been activated before applying force to the drive rings.

3) Release the wheelchair brakes.

4) It is important that the user be aware of how the wheelchair works before starting to drive (study the wheelchair manufacturer's safety instructions in the directions for use). To drive the wheelchair straight ahead, push the wheels evenly.



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Directions for driving using e-move

Operation using e-move increases the user's power resources and converts them into brief rotary motion of the motor using sensors in the wheel hubs. The power made available depends on the mode the additional power has been set to. It does not matter whether the wheelchair is being driven forwards or backwards.

When driving downhill, use of e-move assists braking. Activation of the system creates a more efficient braking effect.

The wheelchair's actual driving function is only affected indirectly, i.e. as a user you only need to change your driving habits slightly.

It is important to bear in mind that with outside use the motor must be protected from moisture as far as possible. If the drive rings get damp/wet, a sudden manoeuvre may result in an increased risk of accident.

Always switch off e-move and lock the brakes when getting into and out of the wheelchair.

Always drive with charged batteries so you do not come to a halt and get stranded with a dead battery. If necessary, use an extra battery for longer distances.

Check to make sure your e-move wheels have the right tyre pressure for driving, namely 6 bar. A puncture will significantly affect e-move's driving ability. If a puncture occurs, only continue the trip in an emergency and drive carefully.

Despite e-move being dimensioned in accordance with all current EMC directives, electromagnetic fields may affect driving characteristics. Mobile phones and other devices that emit electromagnetic radiation can in certain cases cause incorrect function. Likewise, e-move may cause disturbances in electromagnetic fields. This is rare, though it can lead to triggering of alarms in older alarm installations, e.g. in department stores, or to opening of older automatic doors.

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GUIDE FOR SAFE DRIVING

When you get your chair with e-move fitted to it, it is important that you check how it works in a safe and calm place. As an e-move user, you decide which routes you can manage as far as your driving ability and physical ability are concerned. Before using e-move, make sure that the tyres are not worn or damaged and that the batteries are fully charged. These safety checks and your driving abilities are important when assessing whether you can get around using e-move in the following places:

- Quays, landing sites and moorings, roads and locations by watercourses, jetties and dams without protective rails.
- Narrow roads, slopes (e.g. ramps and approaches), narrow roads close to precipices, mountainous areas.
- Narrow and/or steep/sloping paths by busy roads or near to precipices.
- Leaf- and snow-covered or icy stretches.
- Ramps and lifting devices.

With e-move you can manage uphill and downhill slopes in accordance with the wheelchair manufacturer's specifications. The basic prerequisites are tyres that are not worn, the correct tyre pressure, a risk-free surface and a maximum user weight of 120 kg.

You will need help when you have to negotiate:

- Kerbs requiring the wheelchair to tilt by over 15%.
- All kinds of obstacle on slopes, as the risk of overturning then increases.

Be extremely careful when crossing busy roads and at railway and other crossings. Never drive parallel to tram and railway tracks when trying to cross them, as there is a risk of the wheels getting stuck in the tracks. It's better to get someone to help you who can quickly push the wheelchair over the street or railway crossing if the wheelchair suddenly stops (e.g. if the batteries have no charge).

Be careful when driving up ramps onto vehicles. When lifting and lowering, e-move must be disconnected and the parking brakes must be activated.

On wet surfaces the tyres have less grip on the road and there is an increased risk of skidding. Always adjust your driving to the situation at hand.

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1. Start/Stop
Push the hand rims forward slowly and carefully.
Be careful so that the chair does not tip up when starting.

2. Turning
Practise turning around a certain point to learn how the motor reacts.

3. Braking
The motors also help when you want to apply the brakes. Simply push the hand rims backwards slightly. Practise braking when using the wheelchair at different speeds.

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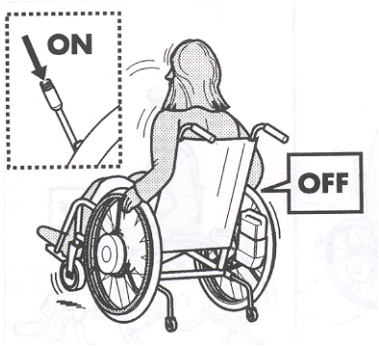
4. Lifting the castors
If you need to lift the castors when the motors are on, you must not touch the handrims. Hold the tyres instead.
It is best to switch off the power and then hold the handrims as usual.



5. Going up steps
One way of getting up low steps is to go back- wards.

6. Upward and downward slope
Ensure that the chair does not tip over when you go uphill.
The chair will keep to a constant speed on downward slopes. Select a speed that allows you to stop easily.
Do not have the power switched off on downward slopes. This may cause the wheelchair's speed to increase to such an extent that you will find it difficult to stop.

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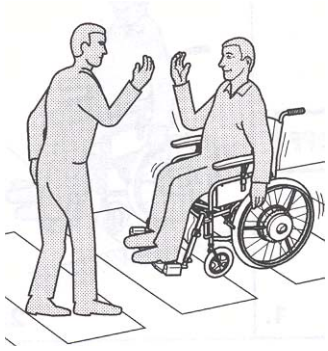
7. Slopes
Practise using your wheelchair on sloping surfaces. Proceed very carefully.

8. Crossings and pavements
Take plenty of time when using a pedestrian crossing. Ensure that you do not drive into kerbs. Ensure that the castors do not get stuck in the tracks when you use a railway crossing.



9. Manual operation
If you switch off the power, the chair will work just like a normal manual wheelchair.

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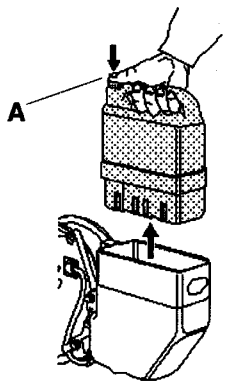
TRANSPORT AND DISASSEMBLY

Your e-move is easy to get ready for transport.

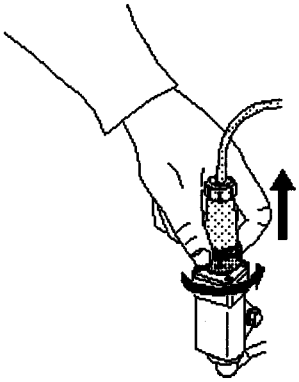
Battery
1. Remove the battery by pressing button (A) whilst carefully pulling the battery out of its holder (Figure l).

I.



Cable
2. Remove the cable from the socket by turning it whilst pulling it carefully upwards (Figure 2).

2.



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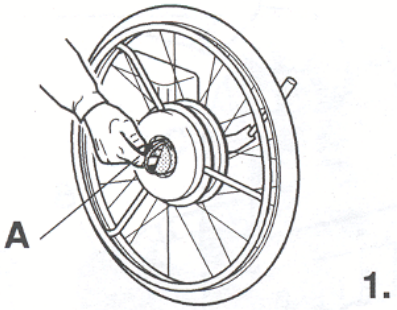
Wheels
The wheels are removed by opening out the handle (A) to the quick release mechanism and pulling straight outwards. (Figure1).
Take care when removing the right-hand wheel. The battery holder and switch can easily start to rotate if you do not hold one of them whilst loosening the wheel (Figure 2).

24" and 22” wheels
You can easily replace the e-move with regular 24" or 22” quick release drive wheels.
Open out the handle (A) and carefully pull out the wheel (Figure1).
For instructions on how to fold the actual wheelchair, please refer to the wheelchair instruction manual enclosed with the delivery.



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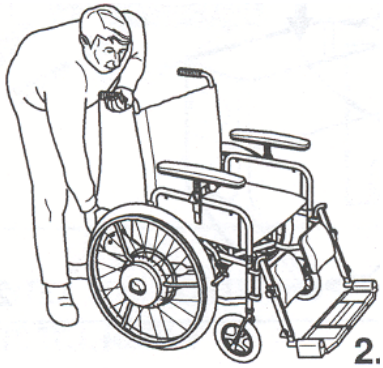
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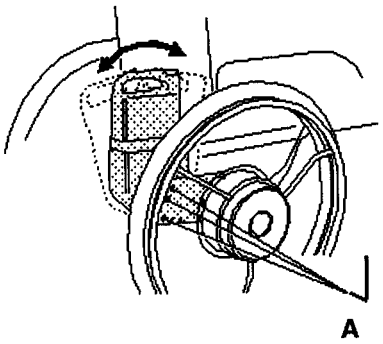
Angle adjustment of the battery holder

2. Loosen the screws (A, figure 1). Tilt the battery holder to the desired position and retighten the screws.
Angle adjustment of the switch lever
Loosen the screws (A, figure 2). Then adjust the lever to the desired position and retighten the screws.

For instructions on how to adjust the backrest, seat, etc. please refer to the wheelchair instruction manual enclosed with the delivery.

1.



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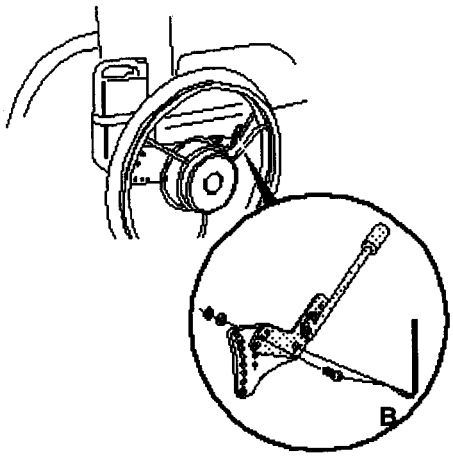

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Technical specifications

Weight of the e-move system:
16kg (including battery)

Range:
Approximately 15km (depending on temperature and terrain)

Speed: 0-6kph

Motor:
24Y 90Wx2

Tyre dimensions: 24x 13/8

Battery type:
Nickel Meta! Hydride, 24V x 6.7 (AH)

Fuse:
30A (flat)

Battery charger:

Capacity: 100 to 240Y AC.50/60Hz

Calculated power: 37Y. 26A (during charging)

Charging time: normal charging approximately 2-3 hours

Reconditioning: approximately 3-13 hours

Storage temperature: 0-40°C
Increased chair width (cm): approx. 4 cm

Maximal users weight: 120 kg (see wheelchairs producers specification)

Maximal climbing ability: see wheelchairs producers specification

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AREA OF USE

e-move is an electrically powered unit that is activated using the drive rings. Small motors in the hubs are connected to the drive rings. When the drive rings are pushed forward the motors are activated and help the user drive the chair. e-move is suitable for all users with a drive ring-operated manual wheelchair. During operation the e-move motor provides much of the energy needed to run the chair. The e-move system works both indoors and outdoors. The battery capacity depends on where the chair is being used, the surface, the temperature and so on. Under normal circumstances the battery will last for a whole day. Remember that the extra power e-move gives the user makes the chair liable to overturn when going uphill. The maximum user weight is 120 kg.

The e-move may not be used unless the wheelchair's overturn protection is fitted. For the CE-marking of e-move to be valid the following must be adhered to:

- Overturn protection must be fitted.
- Fitting, repair or other work may only be carried out by authorised staff or Decon Wheel employees.
- The pendulum supports must be set so that they can swing freely on a horizontal plane.
- Users must be instructed to:
    - Make sure the pendulum supports can move freely.
    - Be careful when driving over obstacles higher than 4 cm.
    - Wheelchairs with e-move must always be tested together with the user regarding the wheelchair's maximum clearance capability.
    - Each wheelchair equipped with e-move must be tested together with the user regarding the tilt function for the rear axle. When leaning back, the overturn limit is the angle at which the wheelchair will fall backwards.

PRODUCT DESCRIPTION

The e-move system is available in two different models: Type A and Type B (see previous section). Every e-move has a 24V DC motor fitted to each hub. The two motor units are interconnected using a cable. Microchips control the power of the two wheels and even out any differences in strength between the users' arms. The battery is a NiMH (nickel metal hydride), which is considered the Best Available Technology. NiMH batteries have a high capacity and are environmentally friendly.

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GUARANTEE AND MAINTENANCE

Guarantee:

- The battery has a 6-month function guarantee. The machinery has a 1-year guarantee.

Maintenance:

- Do not spray water onto the machinery
- Wipe clean the wheel axles and lubricate them with a little oil.
- Tighten the spokes once a rear.
- Check nuts and screws regularly and tighten them when necessary (this applies to all lose parts).
- Wipe the frame with a soft cloth and detergent.
- Check over the chair once a week and check that no cracks or other damage have occurred. If any damage occurs, please contact Decon Wheel immediately.
- An authorised person or Decon Wheel must carry out all technical servicing.
- Only original components or those, which meet Decon Wheels specifications, are to be used.

Battery

Before charging
When you want to charge the battery, select a location, which is:

- Indoors and well ventilated
- 0-40°C
- A level and stable surface

Warning!
It is important that the temperature is 0-40°C. Do not place the charger near a cooker or in direct sunlight.
The charger will not start if the temperature is too high or too low.

Do not charge the battery where there is a risk of the equipment getting wet. Risk of short-circuiting and electric shocks.

Do not place anything onto or extremely close to the battery charger when it is charging.
The charger may overheat and stop working.

Ensure that no children or pets touch the charger. Risk of electric shocks or damage to the equipment.

Do not use any other type of charger. Only use the one enclosed in the delivery.

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Corrosion
All parts of e-move are made of aluminium and stainless steel. To reduce the corrosion of the material the material surface has been treated. Despite of this you should always wipe the e-move if it is exposed to water or damp.

Service and maintenance
At a normal usage of e-move the product demand minimal maintenance. For safety reasons you should leave your e-move to service every other year, you can do this either to Decon Wheel or to your dealer.

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Charging the battery

Put one end of the lead (A) in the charger (B), as shown in figure 1. The other end is put into a 100-240V socket. * Then carefully place the battery into the charger.

There are two types of charging processes; quick charging and reconditioning. The battery must be reconditioned from time to time to ensure optimum battery life and to avoid deterioration of battery capacity. See the section on reconditioning, opposite page.

Quick charging

1) Place the battery in the charger. If the battery is at the correct temperature 0-40°C, the green charging light (A, fig. 2) will come on. The battery will be fully charged 2-3 hours later (the charging process may take longer if the battery is charged in a very warm or cold place).
2) If the battery temperature is too high (over 40°C) or too low (under 0°C), the green charging light (A, fig. 2) will flash until the battery temperature becomes suitable. The charging process will then start automatically.
3) The capacity lights (B, figure 1) on the battery indicate the stage in the charging process.
4) When the process is complete, the charging lights and the battery's capacity light go out automatically.

NB! Do not charge a battery, which is already charged, as this will shorten its life.

Reconditioning

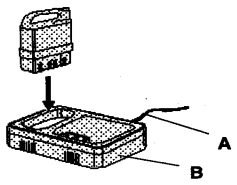
When reconditioning, discharging and charging are carried out automatically. As the battery is first discharged completely and then charged, the battery life will be extended.

1) Place the battery in the charger.

2) If the battery requires reconditioning, the yellow reconditioning light will flash (C, figure 2). If the red start button (D, figure 2) is pressed whilst the reconditioning light flashes (for about 10 seconds), the reconditioning light will come on and the reconditioning process will start.

3) The battery's capacity lights indicate the stage in the charging process in the same war as during quick charging. Reconditioning time varies according to battery capacity. The process takes approximately 3-13 hours.

1.



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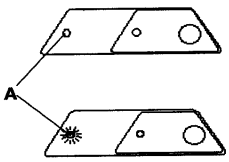

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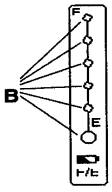

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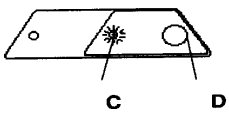

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Charging problems

If the battery or charger develop any faults during charging, the green charging light and the reconditioning light on the charger and/or the battery's capacity lights will start to flash.

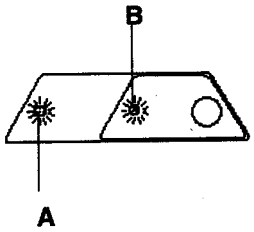
1. The charging light and the reconditioning light flash simultaneously (figure 1):
   - Faulty battery. Replace the battery with a new one.

2. The fourth capacity light on the battery starts to flash (figure 2):
   - Faulty battery. Replace the battery with a new one.

The charging light (A) and reconditioning light (B) flash at one-second intervals:
This may be a contact fault. Check whether there are dust or other particles between the charger and the lead.
A fuse may have blown. Open the fuse box on the side of the battery and check that everything works. If not, replace the blown fuse with the spare one stored on the side of the battery cover.

Warning!
Use the indicated fuses only (30A fuse flat) to avoid the risk of the battery catching fire.

1.



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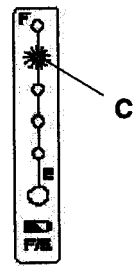

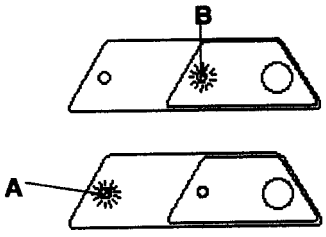

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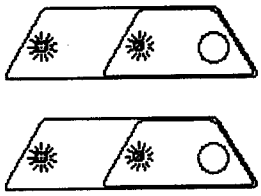
1. The first, third and fifth capacity lights flash (figure 1):
   - The battery is not at a temperature suitable for charging. Wait until the battery is at a suitable temperature before you charge it.

2. The charging light and the reconditioning light on the charger flash in intervals green- green-yellow or green-green-green-yellow (figure 2):
   - Faulty charger. Replace the charger with a new one.

1.

2.



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After charging

1) Remove the battery from the charger when the charging process is complete. Always store the battery with its protective cover fitted (figure I).

2) Pull out the plug.

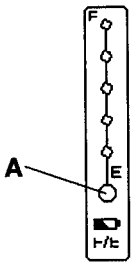
Recycling used batteries

Despite the fact that this type is the most environmentally adapted battery on the market, we recommend that you hand your batteries in for recycling. Battery capacity

2. When you press the indication button (A, figure 2) on the battery, the lights indicate the battery's capacity in 5 stages. The lights go out automatically after approximately 5 seconds.

I.

2.



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The battery's capacity lights look like this:

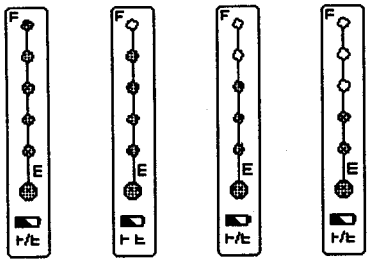
This indicates:
1. If the battery is used regularly *from* being fully charged, the lights will go out one by one.

2. When only one light is on, the battery must be charged soon.

3. Time to charge the battery! The battery has an extremely low remaining capacity. Replace it or charge it immediately.

Important! If *you* have to replace a battery whilst using your chair, make sure that the brakes on both wheels are locked before *you* replace the battery to prevent the wheel chair moving.

1.



2.

3.

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If some but not all of the capacity lights come on when *you* press the indication button on a fully charged battery, this means that the battery has deteriorated and its capacity has been reduced.
Battery capacity when *you* press the indication light.

Four lights on
1. Deterioration: Although the battery's capacity has decreased to 60%-80% of its initial capacity, it is still usable.

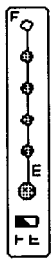
2. Do this: If it is important *for you* to cover long distances without needing to charge the battery, *you* should replace it.

Three lights on
Deterioration: The battery's capacity has decreased to 60% of its initial capacity and is barely usable.

Do this: Replace the battery with a new one.

Important! Contact your supplier *for* advice if only 3 lights are on after charging and the battery is less than one rear old.

1.



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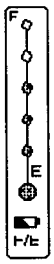

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Battery storage

- Do not store the battery in the holder on the wheelchair when the chair is not in use.
- Store the battery indoors with the protective cover on.
- Do not store the battery where there is a risk of it getting wet or being exposed to direct sunlight.
- If the battery is to be stored for a long time, charge it and store it where it is not too hot or too cold.
- Do not leave the battery outside in the cold or inside a warm tar for long periods of time.
- Store the battery out of reach of children. . If the wheelchair has been driven on a wet surface and the machinery has become wet, wipe it with a dry cloth to prevent certain components from rusting.

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TROUBLESHOOTING

PROBLEM	CHECK	ACTION
The chair runs sluggishly	Is the battery charged? Has the battery been placed into the holder correctly? Have you touched the control lever by mistake? Has the system switched off automatically? Is there enough air in the tyres?	Charge the battery or replace it. Place the battery into the holder. Press the button again. If it still runs sluggishly, contact your supplier. Switch off the system and switch it on again. Pump the tyres.
Abnormal vibration	Is the wheel loose? Can an abnormal sound be heard coming from the driving machinery?	Put it into place correctly. Contact your supplier.
The battery has a short range?	Is the battery fully charged? Has a fuse blown? Has the battery been charged in a suitable way?	Recharge or replace the battery. Replace the fuse. Recharge the battery in a suitable place.
The lights do not come on hand after you have charged the battery	Is the temperature around the battery and the charger suitable?	Try to recharge the battery when the charger and battery are at a suitable temperature. If all of the battery lights do not come on after recharging, the capacity has de-creased due to battery deterioration.
Charging stops abruptly	Is the battery fully charged?	Check the battery's capacity lights.
Charging is never completed	Is the temperature suitable?	Wait until the charger and battery are at a suitable temperature.
The charger becomes extremely warm		Contact your supplier.
The charger emits a strange odour or abnormal sound		Contact your supplier.

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WARNING!

If the instructions are not followed, injury to the user and/or damage to the wheelchair may result.

- Always use the overturn protection.
- Do not lift the chair by the battery, battery holder, cable or handrims.
- Do not let children or people not familiar with e-move use the wheelchair.

Manufacturer: **Decon Wheel AB**

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